

# **FLEXIBLE ORDERING OF INVENTORY FROM MATERIAL SOURCES ACCORDING TO MATERIAL REQUIREMENTS FOR MANUFACTURING OPERATIONS**

Kevin T. Jones  
Melissa Beebe  
Shafali Rastogi

## **ABSTRACT OF THE DISCLOSURE**

A method, computer system, computer program product, and signal embodied on a carrier wave for scheduling delivery of material to a manufacturer with a plurality of manufacturing lines. Each manufacturing line may include at least one operation, and deliveries are made according to the material requirements for the operation. Parts and/or raw materials are requested and delivered to an operation of at least one operation on a manufacturing line in the factory from in-house and external inventory based upon the work scheduled for that operation. Deliveries are scheduled continuously to allow changes in truck arrival schedules from material sources and changes in material requirements. Requests for materials to be delivered are delayed until the last possible moment for making the request to allow for these changes and to ensure that inventory is stored at a manufacturing line and/or operation for minimum time prior to the time the material is needed.